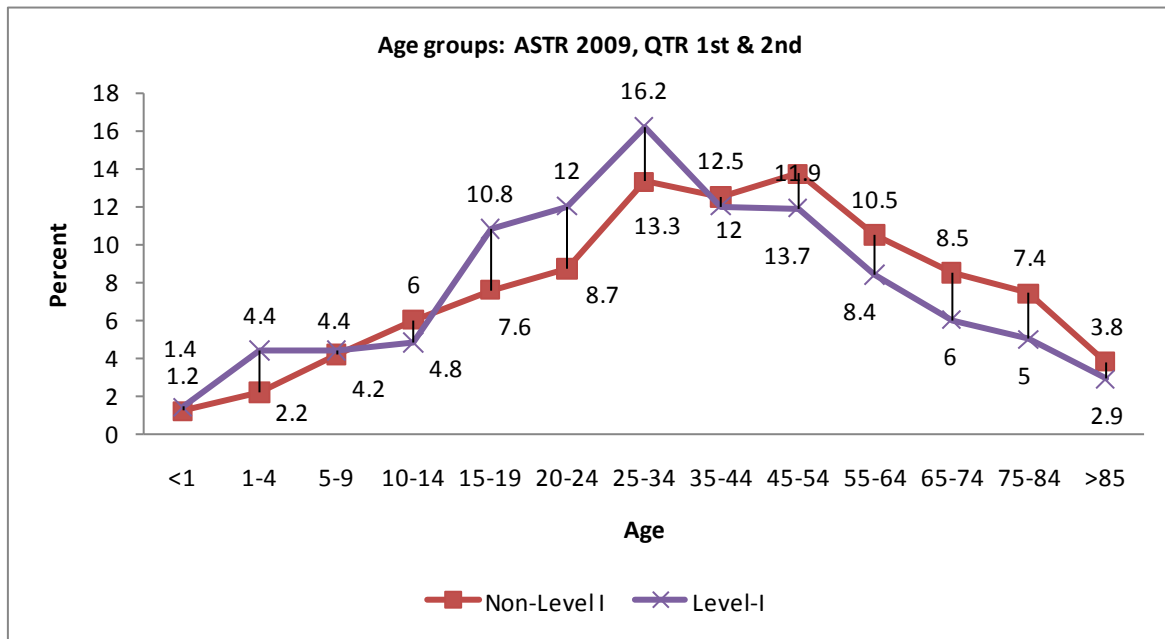


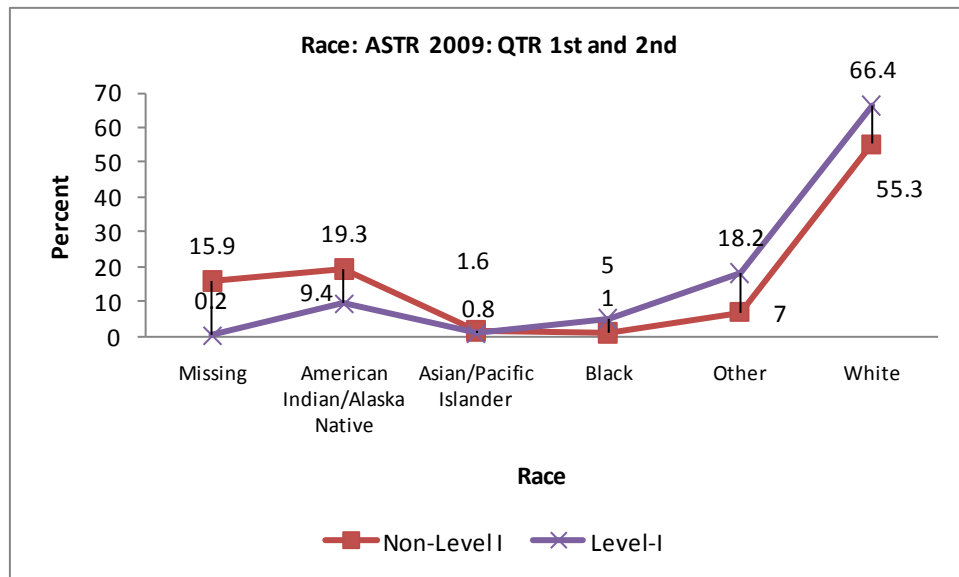
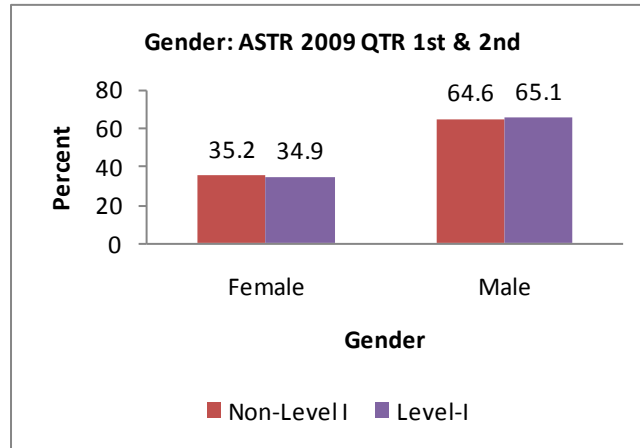
ASTR 2009 Quarter 1 & Quarter 2

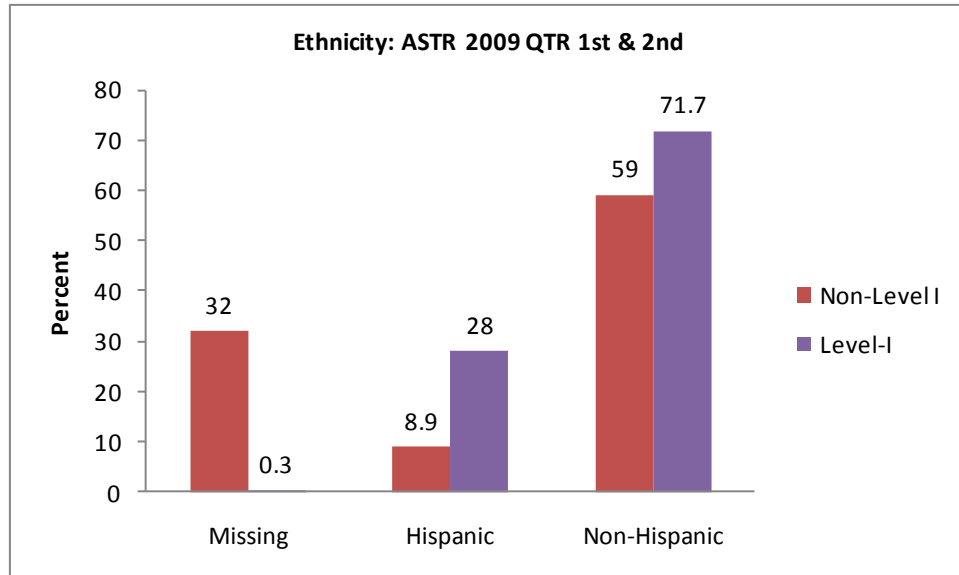
Level I Trauma Centers Compared Level IV Trauma Centers plus two Voluntarily Reporting Facilities

This report summarizes data compiled from Arizona State Trauma Registry (ASTR) for the quarter 1st and 2nd of the year 2009. A total of 13,139 patients were entered into ASTR for these two quarters. A total of 12,636 patients were treated at Level-I Trauma Centers and 503 patients were treated at Level IV Trauma Centers and 2 other voluntarily reporting facilities. This report shows aggregated data in each of the tables and graphs.

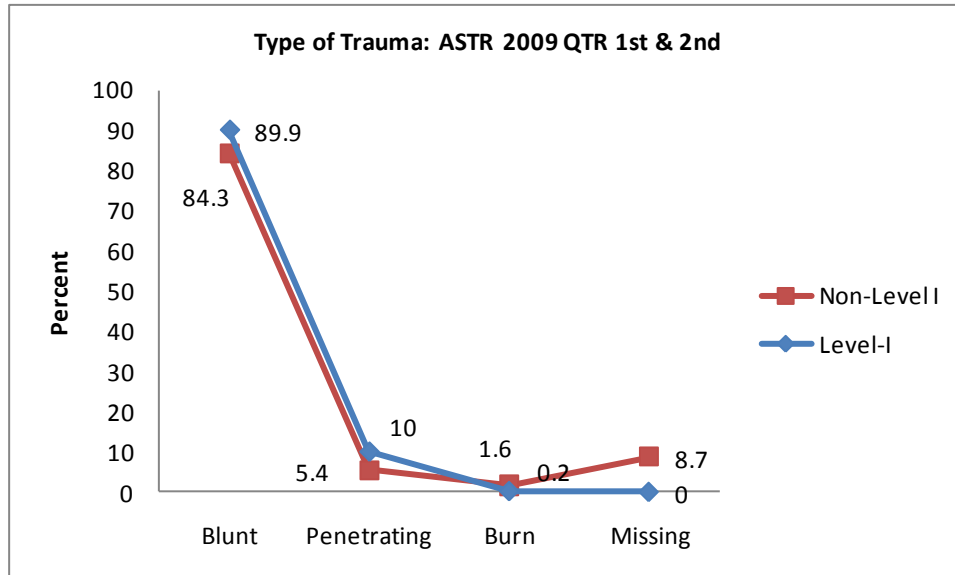
Demographics by Type of Hospital:







Type of Trauma:



Mechanism of Injury:

Injury Type	Hospital Type			
	Non-Level I Hospitals		Level 1 trauma centers	
	Count	Percent	Count	Percent
Mechanism of Injury				
Motor Vehicle Traffic	233	46.3	5,086	40.3
Falls	102	20.3	3,180	25.2
Struck By/Against	28	5.6	1,208	9.6
Transport, other	49	9.7	1,058	8.4
Cut/Pierce	11	2.2	636	5.0
Firearm	12	2.4	471	3.7
Pedal Cyclist, Other	4	0.8	301	2.4
unspecified	5	1.0	163	1.3
Other Specified	6	1.2	140	1.1
Natural/Environmental	5	1.0	89	0.7
Missing	7	1.4	84	0.7
Not elsewhere classifiable	11	2.2	57	0.5
Machinery	1	0.2	62	0.5
Pedestrian, Other	9	1.8	38	0.3
Suffocation	3	0.6	29	0.2
Fire/Burn	11	2.2	14	0.1
Overexertion	3	0.6	11	0.1
Drowning	2	0.4	5	0.0
Poisoning	1	0.2	4	0.0

Discharge Status:

Discharge Status	Hospital Type			
	Non-Level I Hospitals		Level 1 trauma centers	
	Count	Percent	Count	Percent
ED Discharge Status				
Floor	55	10.9	3,745	29.6
Home No Service	176	35.0	3,396	26.9
ICU	5	1.0	2,729	21.6
OR	10	2.0	1,442	11.4
Step Down	3	0.6	412	3.3
Transfer	224	44.5	122	1.0
Missing	2	0.4	323	2.6
Observe	4	0.8	284	2.2
Expired	13	2.6	144	1.1
Left AMA	5	1.0	37	0.3
Home Service	6	1.2	2	0.0
Inpatient Discharge Status				
Home	65	12.9	7,277	57.6
Other Rehab or LTC	5	1.0	724	5.7
Discharged, SNF	2	0.4	599	4.7
Expired	2	0.4	223	1.8
Home Health	3	0.6	126	1.0
Hospice	0	0	81	0.6
Left AMA	0	0	71	0.6
Acute Care	2	0.4	54	0.4
Interim Care Facility	1	0.2	53	0.4
Not applicable	423	84.1	3,428	27.1
Total Died				
Lived	488	97.0	12,303	97.4
Died	14	2.8	333	2.6
Missing	1	0.2	0	0

Injury Severity Score:

ISS is based on AIS for Level-I and is based on ICD-9 for other hospitals

Injury Severity Score	Hospital Type			
	Non-Level I Hospitals		Level 1 trauma centers	
	Count	Percent	Count	Percent
ISS				
Missing	82	16.3	306	2.4
0-8	274	54.5	7,955	63.0
9-15	94	18.7	2,799	22.2
16-24	37	7.4	964	7.6
25-75	16	3.2	612	4.8

ISS by Length of Stay:

Total Length of stay by ISS	Hospital Type					
	Non-Level I Hospitals			Level 1 trauma centers		
	Total Length of Stay			Total Length of Stay		
	Mean	Median	Std	Mean	Median	Std
ISS						
Missing	0.7	0.1	1.6	1.1	0.4	2.0
0-8	0.5	0.1	1.3	1.7	0.8	3.0
9-15	0.6	0.1	1.3	4.7	3.2	5.3
16-24	0.2	0.1	0.5	7.7	5.5	8.0
25-75	2.2	0.1	5.7	11.1	7.0	13.7

Type of Transportation:

Type of Transportation	Hospital Type			
	Non-Level I Hospitals		Level 1 trauma centers	
	Count	Percent	Count	Percent
Air-Ground Transportation				
Air	7	1.4	2,974	23.5
Ground	393	78.1	8,294	65.6
Unknown/Missing/Other	103	20.5	1,368	10.8

Inter-facility Transfers:

Total Transfer Patients	Hospital Type	
	Non-Level I Hospitals	Level 1 trauma centers
	Count	Count
Total patients for this quarter	503	12,636
Patient with no transfer	501	9,631
Patient with one transfer	2	2,973
Patients with 2 or more transfers	0	32

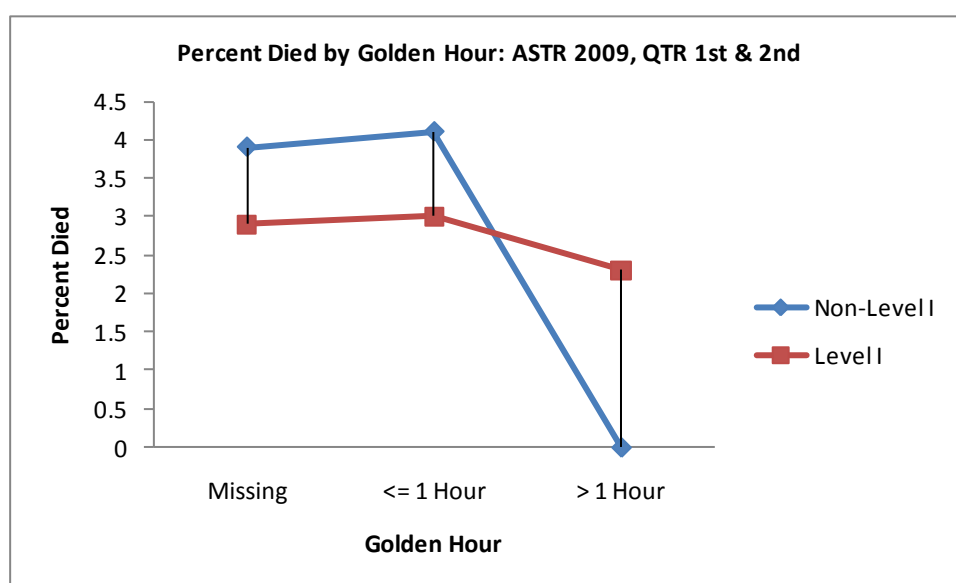
Length of Stay and Transfer Patients	Hospital Type	
	Non-Level I Hospitals	Level 1 trauma centers
	Count	Count
Total patients for this quarter	503	12,636
Patients with no transfer	501	9,631
Patient with LOS <= 6 hours at transferring facility	2	1,581
Patients with LOS >6 hours at transferring facility	0	163
Patients with transfers but no LOS information available	0	1,261

Golden Hour:

Inter-facility transfers are excluded from Golden Hour analysis.

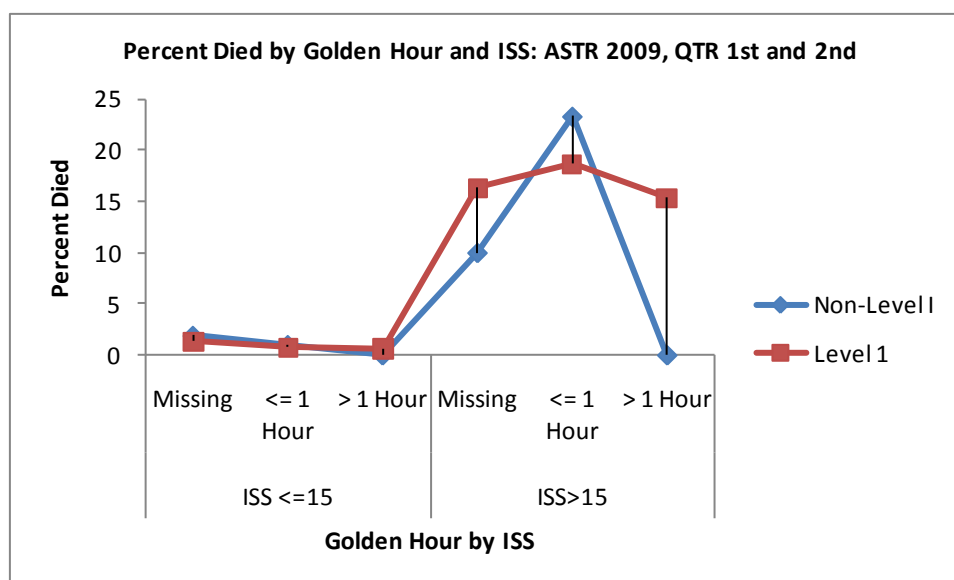
Golden Hour by Outcome Status:

Golden Hour		Outcome						Total patients with no transfer	
		Missing		Died		Lived			
		Count	Percent	Count	Percent	Count	Percent	Count	Percent
Hospital Type	Golden Hour								
Non-Level I Hospitals	Missing	0	0.0	3	3.9	73	96.1	76	15.2
	<= 1 Hour	1	0.4	11	4.1	256	95.5	268	53.5
	> 1 Hour	0	0.0	0	0.0	157	100.0	157	31.3
	Total patients with no transfer	1	0.2	14	2.8	486	97.0	501	100.0
Level 1 trauma centers	Golden Hour								
	Missing	0	0.0	80	2.9	2,665	97.1	2,745	28.5
	<= 1 Hour	0	0.0	109	3.0	3,526	97.0	3,635	37.7
	> 1 Hour	0	0.0	76	2.3	3,175	97.7	3,251	33.8
	Total patients with no transfer	0	0.0	265	2.8	9,366	97.2	9,631	100.0



Golden Hour by ISS:

Golden Hour by ISS			Outcome						Total patients with no transfer	
			Missing		Died		Lived			
			Count	Percent	Count	Percent	Count	Percent	Count	Percent
Hospital Type	ISS	Golden Hour								
Non-Level I Hospitals	Missing	Missing	0	0	1	8.3	11	91.7	12	14.6
		<= 1 Hour	1	2.1	2	4.3	44	93.6	47	57.3
		> 1 Hour	0	0	0	0	23	100.0	23	28.0
	ISS <=15	Missing	0	0	1	1.9	53	98.1	54	14.7
		<= 1 Hour	0	0	2	1.0	189	99.0	191	52.0
		> 1 Hour	0	0	0	0	122	100.0	122	33.2
	ISS>15	Missing	0	0	1	10.0	9	90.0	10	19.2
		<= 1 Hour	0	0	7	23.3	23	76.7	30	57.7
		> 1 Hour	0	0	0	0	12	100.0	12	23.1
Level 1 trauma centers	Missing	Missing	0	0	2	2.5	78	97.5	80	31.6
		<= 1 Hour	0	0	3	3.1	95	96.9	98	38.7
		> 1 Hour	0	0	1	1.3	74	98.7	75	29.6
	ISS <=15	Missing	0	0	31	1.3	2,345	98.7	2,376	28.8
		<= 1 Hour	0	0	21	0.7	3,059	99.3	3,080	37.3
		> 1 Hour	0	0	17	0.6	2,781	99.4	2,798	33.9
	ISS>15	Missing	0	0	47	16.3	242	83.7	289	25.7
		<= 1 Hour	0	0	85	18.6	372	81.4	457	40.7
		> 1 Hour	0	0	58	15.3	320	84.7	378	33.6



Golden Hour by Type of Transportation:

Golden Hour by Transport			Outcome						Total patients with no transfer	
			Missing		Died		Lived			
			Count	Percent	Count	Percent	Count	Percent	Count	Percent
Hospital Type	Type of transport	Golden Hour								
Non-Level I Hospitals	Air	Missing	0	0	0	0	2	100.0	2	28.6
		<= 1 Hour	0	0	1	100.0	0	0	1	14.3
		> 1 Hour	0	0	0	0	4	100.0	4	57.1
	Ground	Missing	0	0	3	6.0	47	94.0	50	12.8
		<= 1 Hour	1	0.5	9	4.1	207	95.4	217	55.5
		> 1 Hour	0	0	0	0	124	100.0	124	31.7
Level 1 trauma centers	Air	Missing	0	0	18	4.6	376	95.4	394	20.0
		<= 1 Hour	0	0	18	4.8	355	95.2	373	18.9
		> 1 Hour	0	0	46	3.8	1,160	96.2	1,206	61.1
	Ground	Missing	0	0	61	3.8	1,564	96.2	1,625	25.4
		<= 1 Hour	0	0	90	3.0	2,936	97.0	3,026	47.4
		> 1 Hour	0	0	30	1.7	1,705	98.3	1,735	27.2

'Unknown' and 'Other' transportation types are excluded from this analysis